

Claims

[c1] WHAT IS CLAIMED IS:

1. A clamping device comprising:

a hexagon receptacle adapted to receive hexagon bits inserted in an axial direction of the hexagon receptacle;

a radially movable locking element adapted to engage a locking recess of a hexagon bit inserted into the hexagon receptacle;

wherein the locking element has a rest position and projects in the rest position radially inwardly into the hexagon receptacle;

a locking sleeve surrounding the hexagon receptacle in an initial position and having a cylindrical securing wall;

wherein the securing wall radially secures the locking element in the rest position;

wherein the locking element is moveable within the hexagon receptacle in the axial direction into a receiving position, wherein radial deflection of the locking element is enabled in the receiving position.

[c2] 2. The clamping device according to claim 1, further comprising a first pressure spring, wherein the locking element is axially moveable against a force of the first

pressure spring.

- [c3] 3. The clamping device according to claim 2, wherein the first pressure spring surrounds the hexagon receptacle.
- [c4] 4. The clamping device according to claim 2, wherein the first pressure spring is a coil spring.
- [c5] 5. The clamping device according to claim 2, further comprising a stop plate arranged between the first pressure spring and the locking element.
- [c6] 6. The clamping device according to claim 5, wherein the stop plate has a slanted portion that is slanted radially inwardly, wherein the slanted portion rests against the locking element.
- [c7] 7. The clamping device according to claim 1, wherein the hexagon receptacle has a slotted hole and wherein the locking element is axially guided in the slotted hole.
- [c8] 8. The clamping device according to claim 2, further comprising a second pressure spring, wherein the locking sleeve is moveable from the initial position in the axial direction toward a receiving end of the hexagon receptacle against the force of the second pressure spring.
- [c9] 9. The clamping device according to claim 8, wherein, in the axial direction, the securing wall has a wall end op-

posite the receiving end of the hexagon receptacle, wherein the wall end has a slant widening in a radial outward direction.

[c10] 10. The clamping device according to claim 8, wherein, in the axial direction, the securing wall has a wall end facing the receiving end of the hexagon receptacle, wherein the wall end has a radially inwardly extending stop.

[c11] 11. The clamping device according to claim 8, wherein the locking sleeve is a rotary part having substantially rotation symmetry.

[c12] 12. The clamping device according to claim 8, wherein the locking sleeve has exterior surface profiling.

[c13] 13. The clamping device according to claim 1, wherein the locking element is a ball.

[c14] 14. The clamping device according to claim 1, adapted to be provided as an integral part of a tool shaft of a hand-held machine tool.

[c15] 15. The clamping device according to claim 14, wherein the machine tool is a reversible drill.

[c16] 16. The clamping device according to claim 14, comprising a drill chuck receptacle, wherein the locking sleeve

has an outer diameter that is smaller than an outer diameter of the drill chuck receptacle.